

Time: 1:42:00 PM - 1:48:00 PM

Presenter: Daniel Glazer, MD

Title of Abstract: **Vascular Conditions Occurring Around the Knee – A Pictorial Review**

Abstract:

Institution: University of Michigan

Authors: Daniel Glazer MD, Peter Liu MD

Modality: Multi

Organ System: CV

Scientific and/or Clinical Significance? After reviewing this educational poster, the reader will become more familiar with vascular pathology that frequently occurs around the knee.

Relationship to existing work This poster will present the current details of lower extremity vascular imaging.

PURPOSE/AIM 1. Describe the common imaging techniques for non-invasive vascular imaging of the lower extremities, including vascular ultrasound, CT Angiography, and MR Angiography 2. Present cases of common and uncommon vascular pathology occurring around the knee using a multimodality approach 3. Describe pearls and pitfalls in interpretation for the practicing radiologist **CONTENT ORGANIZATION** 1. Background/Techniques 2. Arterial Disease and Variant Anatomy a. Normal and variant anatomy and relevance to flap/perforator surgery b. Embolic occlusion c. Traumatic dissection d. Chronic peripheral arterial disease e. Popliteal artery entrapment syndrome f. Cystic adventitial disease g. Popliteal artery aneurysm 3. Venous Disease a. Deep venous thrombosis b. Arteriovenous fistula 4. Conclusion **SUMMARY AND MAJOR TEACHING POINTS** Over the past 2 decades, non-invasive vascular imaging has replaced catheter angiography as the primary diagnostic method for imaging the lower extremity arterial and venous systems. While traditional systemic/diffuse vascular disease processes can occur around the knee, there are additional unique pathologic entities that occur specifically in this anatomic location. Using case examples, the practicing radiologist will become familiar with typical and atypical causes of lower extremity vascular disease that occur primarily around the knee.